USGS science for a changing world

GSN

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M 6.8, SOUTH ISLAND OF NEW ZEALAND

Origin Time: Mon 2007-10-15 12:29:37 UTC
Location: 44.71˚S 167.46˚E Depth: 25 km

PAGER
Version 1
Created: 27 mins, 1 secs after earthquake

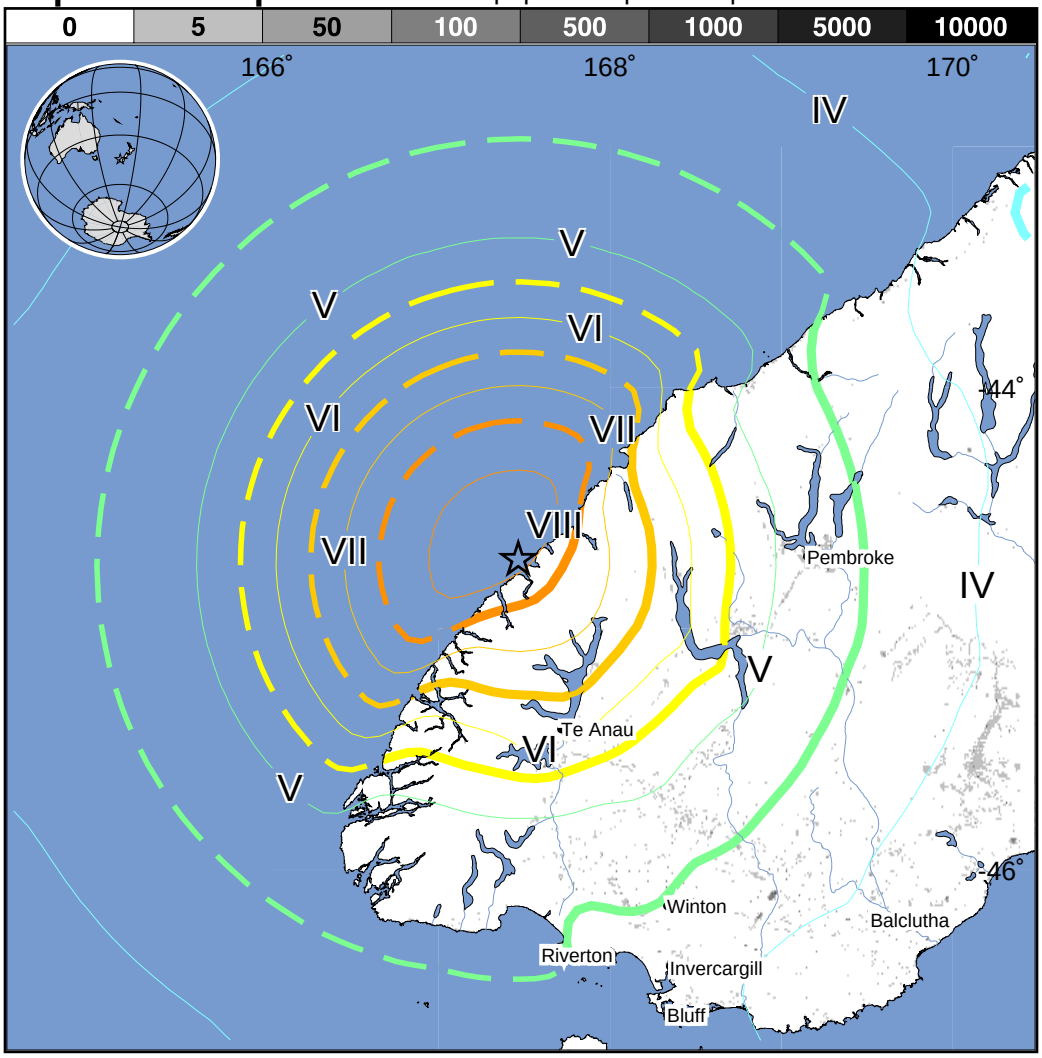
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		- -*	0*	134k*	34k	5k	1k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	none	none	none	V. Light	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy
	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per ~1 sq. km from Landscan 2005

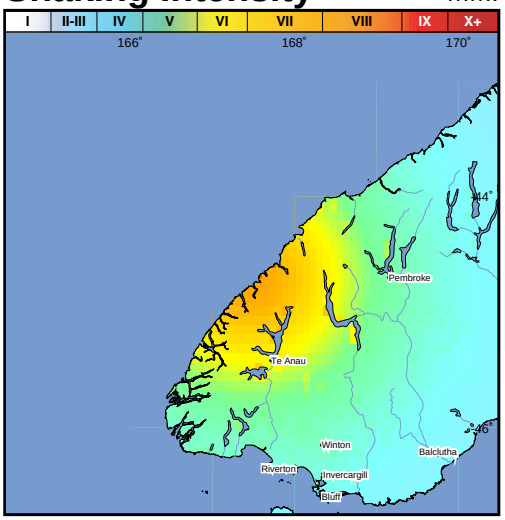


Selected City Exposure

MMI	City	Population
VI	**Te Anau**	**2k**
V	**Pembroke**	**4k**
V	**Riverton**	**1k**
IV	**Winton**	**2k**
IV	**Invercargill**	**47k**
IV	**Bluff**	**1k**
IV	**Balclutha**	**4k**
IV	Milton	2k

bold cities appear on map (k = x1000)

Shaking Intensity



Users should consider the preliminary nature of this information and check for updates as additional data becomes available. Population exposure estimates are NOT a direct estimate of earthquake damage; comparable shaking will result in significantly lower losses in regions with well built structures than in regions with vulnerable structures. Overall, structures in this region are designed to be resistant to earthquake shaking, though some vulnerable construction exists. A magnitude 7.6 earthquake struck the New Zealand region on May 25, 1981 (UTC), with estimated population exposures of 150 at intensity IV and NaN at intensity III. No shaking-related deaths were reported.

This information was automatically generated and has not been reviewed by a seismologist.